



Figure 1A

1 agagagcagctcccttcccctcggcgaggaggaaggaagaaagccagagagagagag
61 agagatcatcgcagcttctcctccgaccatttgactgcgactgtgattacaacacaccgt
121 tgatcctacgaaaaagaggtaatggatactggcggaattcgctggcggtccggacctgat
M D T G G N S L A S G P D 13
181 ggtgtgaagaggaaagtttgttatttctatgaccctgaggtcggcaattactactatggc
G V K R K V C Y F Y D P E V G N Y Y Y G 33
241 caaggtcatcccatgaagccccatcgcacatccgcacatgacccatgccctcctcgctcactac
Q G H P M K P H R I R M T H A L L A H Y 53
301 ggtctccttcagcatatgcaggttctcaagcccttccctgcccgcgaacgtgatctctgc
G L L Q H M Q V L K P F P A R E R D L C 73
361 cgcttccacgcccagcactatgtctcttttctccgcagcattacccctgaaacccagcaa
R F H A D D Y V S F L R S I T P E T Q Q 93
421 gatcagattcgccaacttaagcgcttcaatgttggtgaagactgtcccgctctttgacggc
D Q I R Q L K R F N V G E D C P V F D G 113
481 ctttattccttttgccagacctatgctggaggatctgttggtggctctgtcaagcttaac
L Y S F C Q T Y A G G S V G G S V K L N 133
541 cacggcctctgcgatattgccatcaactgggctgggtgggtctccatcacgctaagaagtgc
H G L C D I A I N W A G G L H H A K K C 153
601 gaggcctctggcttctgttacgtcaatgatatcgtcttagctatcctagagctccttaag
E A S G F C Y V N D I V L A I L E L L K 173
661 cagcatgagcgtgttctttatgtcgatattgatatccaccacggggatggagtggaggag
Q H E R V L Y V D I D I H H G D G V E E 193
721 gcattttatgctactgacaggggttatgactgtctcgtttcataaatttggtgattacttt
A F Y A T D R V M T V S F H K F G D Y F 213
781 cccggtacaggtcacattcaggatataggttatggttagcggaagtactattctctcaat
P G T G H I Q D I G Y G S G K Y Y S L N 233
841 gtaccactggatgatggaatcgatgatgagagctatcatctgttattcaagcccatcatg
V P L D D G I D D E S Y H L L F K P I M 253
901 gggaaagtattggaaattttccgaccaggggctgtggtatttgcaatgtggtgctgactcc
G K V M E I F R P G A V V L Q C G A D S 273
961 ctatctggggatcggttaggttgcttcaatctttcaatcaaaggtcatgctgagtgcgtc
L S G D R L G C F N L S I K G H A E C V 293
1021 aaatttatgagatcggttcaatgttcccctactgctcttgggtgggtgggttacactatc
K F M R S F N V P L L L L G G G Y T I 313
1081 cgcaatgttgcccggtgctggtgctacgagactggagttgcacttggagttgaagttgaa
R N V A R C W C Y E T G V A L G V E V E 333
1141 gacaagatgccggagcatgaatattatgaatactttggtccagactatacacttcacgtt
D K M P E H E Y Y E Y F G P D Y T L H V 353
1201 gctccaagtaacatggaaaataagaattctcgtcagatgcttgaagagattcgcaatgac
A P S N M E N K N S R Q M L E E I R N D 373
1261 cttctccacaatctcttaagcttcagcatgctccaagtgtaccatttcaggaaagacca
L L H N L S K L Q H A P S V P F Q E R P 393
1321 cctgatacagagactcccagaggttgatgaagaccaagaagatggggataaaagatgggat
P D T E T P E V D E D Q E D G D K R W D 413
1381 ccggattcagacatggatgttgatgatgaccgtaaacctataccaagcagagtaaaaaga
P D S D M D V D D D R K P I P S R V K R 433
1441 gaagctgttgaaaccagatacaaaggacaaggatggactgaaaggaattatggagcgtgga
E A V E P D T K D K D G L K G I M E R G 453
1501 aaaggttgtgaggtggaggtggatgagagtggaaagcactaaggttacaggagtaaaccga
K G C E V E V D E S G S T K V T G V N P 473
1561 gtgggagtggaggaagcaagtgtgaaaatggaagaggaaggaacaaacaaggggtggggcg
V G V E E A S V K M E E E G T N K G G A 493
1621 gagcaggcgtttcctcctaaacataagactcggagcttctaatttcttgctactttttc
E Q A F P P K T * 501
1681 tgtctatcaaagtgttgctagttaagtttctggagttgttggttggttgtaagcactcctctg
1741 ttttagaggattgagcacggatatgtatttattcgttgcatgtctgaatgatgatgat
1801 atgacaa

Figure 1B

1 gtgcccacaactcctagtaatgacttttctcaggcattgttgacacaaattttgctctgag
 61 taaaacttgggaatagagagagactctgagtgagagagagattctgagtgagagacggag
 121 atggaggcagacgaaagcggcatctctctgcccgtcgggacccgacggacgtaagcggcga
 M E A D E S G I S L P S G P D G R K R R 20
 181 gtcagttactttctacgagccgacgatcggagactactactacgggtcaaggccacccgatg
 V S Y F Y E P T I G D Y Y Y G Q G H P M 40
 241 aagcctcaccggatccgtatgggtcatagcctaattcattcactatcacctccaccgtcgc
 K P H R I R M A H S L I I H Y H L H R R 60
 301 ttagaaatcagtcgcccctagcctcgtcgcgctccgatatcgggccgattccattcgccg
 L E I S R P S L A D A S D I G R F H S P 80
 361 gagtatgttgacttctcgtctccgttttcgcccgaatctatgggcgatccttccgctgca
 E Y V D F L A S V S P E S M G D P S A A 100
 421 cgaaacctaaggcgattcaatgtcgggtgaggattgtcctgtcttcgacggactttttgat
 R N L R R F N V G E D C P V F D G L F D 120
 481 ttttgccgtgcttccgcccggaggttctattggtgctgccgtcaaattaaacagacaggac
 F C R A S A G G S I G A A V K L N R Q D 140
 541 gctgatatcgctatcaattggggcggtgggcttcaccatgctaagaaaagcggaggcttct
 A D I A I N W G G G L H H A K K S E A S 160
 601 gggttttgctatgtaaacgacatcgtgctagggattctggagttgctcaagatgtttaag
 G F C Y V N D I V L G I L E L L K M F K 180
 661 cgggttctctacatagatattgatgtccaccatggagatggagtggagaagcgttttac
 R V L Y I D I D V H H G D G V E E A F Y 200
 721 accactgatagagttatgactgttttcttccacaaatttggggacttttttcccaggaact
 T T D R V M T V S F H K F G D F F P G T 220
 781 ggtcacataagagatgttggcgctgaaaaagggaaatactatgctctaaatgttccacta
 G H I R D V G A E K G K Y Y A L N V P L 240
 841 aacgatggatggacgatgaaagtctccgcagcttgttttagacctcttatccagaagggt
 N D G M D D E S F R S L F R P L I Q K V 260
 901 atggaagtgtatcagccagaggcagttgttcttcagtgtggtgctgactccttaagtgg
 M E V Y Q P E A V V L Q C G A D S L S G 280
 961 gatcgggttgggttgccttcaacttatcagtcaaggggtcacgctgattgccttcgggttcta
 D R L G C F N L S V K G H A D C L R F L 300
 1021 agatcttacaacgttcctctcatggtgttgggtggtgaaggggtatactattcgaaatgtt
 R S Y N V P L M V L G G E G Y T I R N V 320
 1081 gcccggttgcgtggtgttatgagactgcagttgctggttggagtagagccggacaacaaactc
 A R C W C Y E T A V A V G V E P D N K L 340
 1021 ccttacaatgagtatttttgagtatttcggcccagattatacgcttcatgtcgacccaagt
 P Y N E Y F E Y F G P D Y T L H V D P S 360
 1201 cctatggagaattttaaacacgcccacaaagatatggagaggataaggaacacgttgctggaa
 P M E N L N T P K D M E R I R N T L L E 380
 1261 caactttcgggactaatacacgcacctagcgtccagtttcagcacacaccaccagtcaat
 Q L S G L I H A P S V Q F Q H T P P V N 400
 1321 cgagtttttgagcagccggaagatgacatggagacaagacaaaacctcgcatctggagt
 R V L D E P E D D M E T R P K P R I W S 420
 1381 ggaactgcgacttatgaatcagacagtgacgatgatgataaacctcttcatgggttactca
 G T A T Y E S D S D D D D K P L H G Y S 440
 1441 tgtcgtggtggcgcaactacggacagggactctaccgggtgaagatgaaatggatgacgat
 C R G G A T T D R D S T G E D E M D D D 460
 1501 aaccagagccagacgtgaatcctccatcgtcttaaacagccttgatgggttggtgtctc
 N P E P D V N P P S S * 471
 1561 ttttgccatatgataatgtcggcagatttaagaaacaagttaggggaatgaatgattctt
 1621 tgatgttttttcagcaaccttttgagttctgtgaaaacgctgcattgattagaacagtga
 1681 caactgactagtatttttgcccaagttagaaaatcagaatatgtgaaaaaaaaaaaaaaa
 1741 aaaaaaaagggcgccgctctagaggatccaagcttacgtacgcgtgcatgcgacgtcat

Figure 2A

```

1  cacgcgtccgtaaaaaatcctctctttttctcaaccttgattcttagccatggagttctgg
                                     M E F W      4
61  ggaattgaagttaaatcaggaaagccagttacagtgactcctgaagaaggcattcttattc
    G I E V K S G K P V T V T P E E G I L I      24
121  cacgtttctcaggcatcgcttggagaatgtaaaaacaagaagggagagtttgtgccttta
    H V S Q A S L G E C K N K K G E F V P L      44
181  catgtaaagggttggaaccagaacttggttctgggaactctatcgactgagaacatccct
    H V K V G N Q N L V L G T L S T E N I P      64
241  cagcttttctgtgatttggtattcgacaaggagtttgagctttctcacacttggggaaaa
    Q L F C D L V F D K E F E L S H T W G K      84
301  ggaagtgtttactttgttggatacaaaaactcccaacattgagccacaaggctattctgag
    G S V Y F V G Y K T P N I E P Q G Y S E      104
361  gaagaagaggaagaagaggaagaagttcctgctgggaatgctgccaaaggctgtagctaaa
    E E E E E E E E V P A G N A A K A V A K      124
421  ccaaaggctaagcctgcagaagtgaagccagctggttgatgatgaagaggatgagttctgat
    P K A K P A E V K P A V D D E E D E S D      144
481  tctgacggaatggatgaagatgattctgatgggtgaggattctgaggaagaagagcctaca
    S D G M D E D D S D G E D S E E E E P T      164
541  cctaagaagcctgcatcaagcaagaagagagctaataaaactaccctaaagcacctgtg
    P K K P A S S K K R A N E T T P K A P V      184
601  tcagcaaagaaggcgaaagtagcagttactcctcagaaaacagatgagaagaagaaggagg
    S A K K A K V A V T P Q K T D E K K K G      204
661  ggaaaggctgcaaaccagagcccaaagtcggccagtcaggtctcatgtggttcatgcaag
    G K A A N Q S P K S A S Q V S C G S C K      224
721  aagactttcaactcagggaatgcacttgagtctcacaacaaggccaagcacgctgctgcc
    K T F N S G N A L E S H N K A K H A A A      244
781  aagtgaagtggtttcttattagagcttgtgatttctatggaattttgcctgtagtcttta
    K *                                           245
841  tgaaaccttcggattttcttatattttcttttgataacaagagtcttaataaagagagagc
    cagttggagtcttaaaaaaaaaaaaaaaaaagggcgccgc

```

Figure 2B

```

1  gtctttcgcttcttaaaaaaaaaacctaacaacctctcttctctcttctcgttcaacaaca
61  atggagttctgaggagttgcggtgacaccaaaaaaacgctactaagggtgactcctgaagaa
   M E F W G V A V T P K N A T K V T P E E 20
121  gacagccttgtccacatttctcaggcttcacttgactgcacagtgaatctggagaatct
   D S L V H I S Q A S L D C T V K S G E S 40
181  gtgggttttgagtgtgactgttggtggggctaaacttggttattggaacactttcacaagac
   V V L S V T V G G A K L V I G T L S Q D 60
241  aagttccctcagattagctttgatttggtttttgataaagagtttgagctttcacacagc
   K F P Q I S F D L V F D K E F E L S H S 80
301  ggtaccaagcaaagtgttcatttcattggctacaaatcccccaacatcgagcaggatgac
   G T K A N V H F I G Y K S P N I E Q D D 100
361  ttcactagttcggatgatgaggatgttcctgaagctgttcctgctcctgcccctactgct
   F T S S D D E D V P E A V P A P A P T A 120
421  gttactgccaacggaaatgctggagcagctgttggtcaaggctgacacaaagccaaaggcc
   V T A N G N A G A A V V K A D T K P K A 140
481  aaacctgccgaagtgaagcctgcagaagagaagcctgaatcagacgaggaagatgagtct
   K P A E V K P A E E K P E S D E E D E S 160
541  gatgatgaagatgagtctgaagaggatgatgactctgagaaaggaatggatgttgatgaa
   D D E D E S E E D D D S E K G M D V D E 180
601  gatgactcagatgatgacgaggaggaggattctgaggatgaagaagaggaggagactcct
   D D S D D D E E E D S E D E E E E T P 200
661  aagaagcctgagccaatcaacaagaagaggccaaatgaatctgtatccaaaacacccgctc
   K K P E P I N K K R P N E S V S K T P V 220
721  tctggaaagaaggcaaaaccagcagcagcaccagcttctactcctcagaagacagagaag
   S G K K A K P A A A P A S T P Q K T E K 240
781  aagaaaggaggacacaccgccacaccacccagctaagaagggtggaaagtctcctgtg
   K K G G H T A T P H P A K K G G K S P V 260
841  aatgctaaccagagccccaagtctggagggtcaatcatccggtggtaacaacaacaagaag
   N A N Q S P K S G G Q S S G G N N N K K 280
901  ccattcaactcaggcaaacaatttggtgggttccaacaacaagggttctaacaagggaag
   P F N S G K Q F G G S N N K G S N K G K 300
961  ggaaagggtagagcttaaggacgtggatcaaggagagggttttggttttcgagtagatga
   G K G R A * 305
1021  tgaaaacacttggaagtgtggttttggtttttatcttattttattagttataacttggtta
1081  tcggatgagctattttgagtatttgcaatttctactttcctatgtaattcagttatatgaa
1141  tatttgctgaaatgagaaagaagactcgaattgcaaacaaaaaaaaaaaaaaaaaaaaaa
1201  aaggcgccgc

```

Figure 3

AtRPD3A	MD-----TGG	NSLAS-GPDG	VKRKVCYFYD	PEVGNYYYGQ	GHPMKPHRIR	44
AtRPD3B	MEADESGI--	-SLPS-GPDG	PKRRVSYFYE	PTIGDYYYGQ	GHPMKPHRIR	47
ZmRPD3	MDPSSAGSGG	NSLPSVGPDG	QKRKVCYFYD	PDVGNYYYGQ	GHPMKPHRIR	50
RPD3	MVYEATPFD-	---PITVKPS	DKRRVAYFYD	ADVGNAYGA	GHPMKPHRIR	46
AtRPD3A	MTHALLAHYG	LLQHMQVLKP	FPARERDLCR	FHADDYVSFL	RSITPETQOD	94
AtRPD3B	MAHSLIHYH	LHRRLEISRP	SLADASDIGR	FHSPEYVDFL	ASVSPESMGD	97
ZmRPD3	MTHSLARYG	LLNQMQVYRP	NPARERELCR	FHAEYINFL	RSVTPETQOD	100
RPD3	MAHSLIMNYG	LYKKMEIYRA	KPATKQEMCQ	FHTDEYIDFL	SRVTPDNLEM	96
AtRPD3A	QI--RQLKRF	NVGEDCPVFD	GLYSFCQTYA	GGSVGGSVKL	NHGLCDIAIN	142
AtRPD3B	PSAARNLRRF	NVGEDCPVFD	GLFDFCRASA	GGSIGAAVKL	NRQDADIAIN	147
ZmRPD3	QI--RLLRKF	NVGEECPVLD	GLYSFCQTYA	GASVGGAVKF	NHGH-DIAIN	147
RPD3	--FKRESVKF	NVGDDCPVFD	GLYEYCSISG	GGSMEGAARL	NRGKCDVAVN	144
AtRPD3A	WAGGLHHAKK	CEASGFCYVN	DIVLAILELL	KQHERVLYVD	IDIHGGDGVE	192
AtRPD3B	WGGLHHAKK	SEASGFCYVN	DIVLGILELL	KMFKRVLYID	IDVHHGGDGVE	197
ZmRPD3	WSGGLHHAKK	CEASGFCYVN	DIVLAILELL	KHHERVLYVD	IDIHGGDGVE	197
RPD3	YAGGLHHAKK	SEASGFCYLN	DIVLGTIELL	RYHPRVLYID	IDVHHGGDGVE	194
	**	*		*	**	
AtRPD3A	EAFYATDRVM	TVSFHKFGDY	FPGTGHIQDI	GYGSGKYYSL	NVPLDDGIDD	242
AtRPD3B	EAFYTTDRVM	TVSFHKFGDE	FPGTGHIRDV	GAEKGYKYYAL	NVPLNDGMDD	247
ZmRPD3	EAFYTTDRVM	TVSFHKFGDY	FPGTGDIRDI	GHSKGKYYSL	NVPLDDGIDD	247
RPD3	EAFYTTDRVM	TCSFHKYGEF	FPGTGELRDI	GVCAGKNYAV	NVPLRDGIDD	244
	*	**				
AtRPD3A	ESYHLFLFKPI	MGKVMELFRP	GAVVLQCGAD	SLSGDRLGCF	NLSIKGHAEC	292
AtRPD3B	ESFRSLFRPL	IQKVMENVYQF	EAVVLQCGAD	SLSGDRLGCF	NLSVKGHADC	297
ZmRPD3	ESYQSLFKPI	MGKVMENVFRP	GAVVLQCGAD	SLSGDRLGCF	NLSIKGHAEC	297
RPD3	ATYRSVFEEFV	IKKIMEWYQF	SAVVLQCGGD	SLSGDRLGCF	NLSMEGHANC	294
AtRPD3A	VKFMRSFNVE	LLLLGGGGYT	IRNVARCWCY	ETGVALGVEV	EDKMPEHEYY	342
AtRPD3B	LRELRSYNVP	LMVLGGEQYT	IRNVARCWCY	ETAVAVGVEP	DNKLPYNEYF	347
ZmRPD3	VRYMRSFNVP	LLLLGGGGYT	IRNVARCWCY	ETGVALGQEP	EDKMPVNEYF	347
RPD3	VNYVKSEFIE	MMVVGGGGYT	MRNVARTWCF	ETGLLNNVVL	DKDLPYNEYF	344
AtRPD3A	EYFGPDYTLH	VAPSNMENKN	SRQMLEEIRN	DLLHNLSKLQ	HAPSVPFQER	392
AtRPD3B	EYFGPDYTLH	VDPSNMENKN	TPKDMERIRN	TLLHNLSGLI	HAPSVQFQHT	397
ZmRPD3	EYFGPDYTLH	VAPSNMENKN	TRQQLDDIRS	----KLSKLR	HAPSVHFQER	393
RPD3	EYYGPDYKLS	VRPSNMFNVN	TPEYLDKVMF	NIFANLENTK	YAPSVQLNHT	394
AtRPD3A	PPDTETPEVD	EDQEDGDKRW	DPDSDMDVDD	D-----R	KPIPSRVKRE	434
AtRPD3B	PPVNRVLD--	-----	EPEDDME---	-----TR	KP---RIWSG	421
ZmRPD3	VPDTEIPEQD	EDQDDPDERH	DPDSDMEVDD	HKAVEESSRR	SILGIKIKRE	443
RPD3	P-----	-----R-	DAEDLGDVVE	DSA-----	-----	409
AtRPD3A	AVEPDTKDKD	GLKGIMERGK	GCEVEVDESG	STKVT---GV	NPVGVEEAS-	480
AtRPD3B	TATYESDSDD	DDKPL--HGY	SC-----	--RGGATTDR	DSTGEDEMDD	459
ZmRPD3	FGENATRVDQ	GGRVASEH-R	GLEPMAEDIG	SSKQAPQADA	SAMAIDEPSN	492
RPD3	-----	-----	-----	-----	-----EAKD	413
AtRPD3A	VKMEEEGTNK	GGAEQAFPPK	T			501
AtRPD3B	DNPEPDVNP-	-----PSS				471
ZmRPD3	VKNEPESSTK	LQGQAAAYHK	P			513
RPD3	TKGGSQYARD	LHVEHDNEFY				433

Figure 4

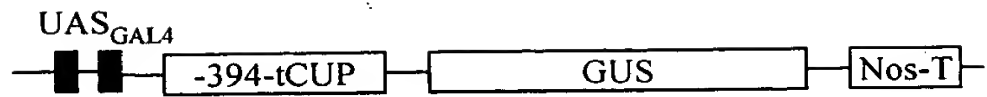
AtHD2A	MEFWGIEVKS	GKPVTVTPEE	GILIHVSQAS	LGECKNKKGE	FVPLHVKVGN	50
AtHD2B	MEFWGVAVTP	KNATKVTPEE	DSLVIHSQAS	L-DCTVKSGE	SVVLSVTVGG	49
ZmHD2	MEFWGLEVKP	GSTVKCEPGY	GFVLHLSQAA	LGES--KKSD	NALMYVKIDD	48
*						
AtHD2A	QNLVLGTLST	ENIPQLFCDL	VFDKEFELSH	TWGKGSVYFV	GYKTPNIEPQ	100
AtHD2B	AKLVIGTLSQ	DKFPQISFDL	VFDKEFELSH	SGTKANVHFI	GYKSPNIEQD	99
ZmHD2	QKLAI GTLSV	DKNPHIQFDL	IFDKEFELSH	TSKTTSVFFT	GYKVEQPFEE	98
*						
AtHD2A	GYSEEEEEEE-	EEVPAGNAA	-----	---KAVAKPK	AKPAEVKPAV	136
AtHD2B	DFTSSDDEDV	PEAVPAPAPT	AVTANGNAGA	AVVKADTKPK	AKPAEVKPAE	149
ZmHD2	DEMDLDSEDE	DEELNVP---	VVKE NGKADE	KKQKSQEKAV	AAPSKSSPDS	145
-----DDEEDE						
AtHD2A	SDS-D-----	-----GMD	EDDS DGEDSE	EEE-----		162
AtHD2B	EKPESDEEDE	SDDEDESEED	--DDSEK GMD	VDEDDSDDDE	EEDSEDEEEE	197
ZmHD2	KKSKD DDDSD	EDET DSDDED	ET DSDDEGLS	SEEGDDDSSD	EDDTSDDEEE	195
-----KGPAS						
AtHD2A	PTP--KKPAS	-SKKRANETT	PKAPVSAKKA	KVAV----TP	QKTDEKK---	202
AtHD2B	ETP--KKPEP	INKKRPNESV	SKTPVSGKKA	KPAAAPASTP	QK-----TEK	240
ZmHD2	DTPTPKKPEV	GKKRPAESSV	LKTPLSDKKA	KVATPSS---	QKTGGK----	238
-----KGGKA-----						
AtHD2A	-KGGKA-----	-----AN	QSPKSASQVS	CGSC-KKTFN		229
AtHD2B	KKGG--HTAT	PHPAK-----	KGGKSPVNAN	QSPKSGGQSS	GGNNNKKPFN	283
ZmHD2	-KGA AVHVAT	PHPAKGKTIV	NNDKSVKSPK	SAPKSGGSVP	CKPCS K-SFI	286
-----SGNALE-SHN						
AtHD2A	SGNALE-SHN	KAKHAAAK				245
AtHD2B	SGKQFGGSNN	KGSNKGKGKG	RA			305
ZmHD2	SETALQA-HS	RAKMGASESQ	VQ			307

Figure 10

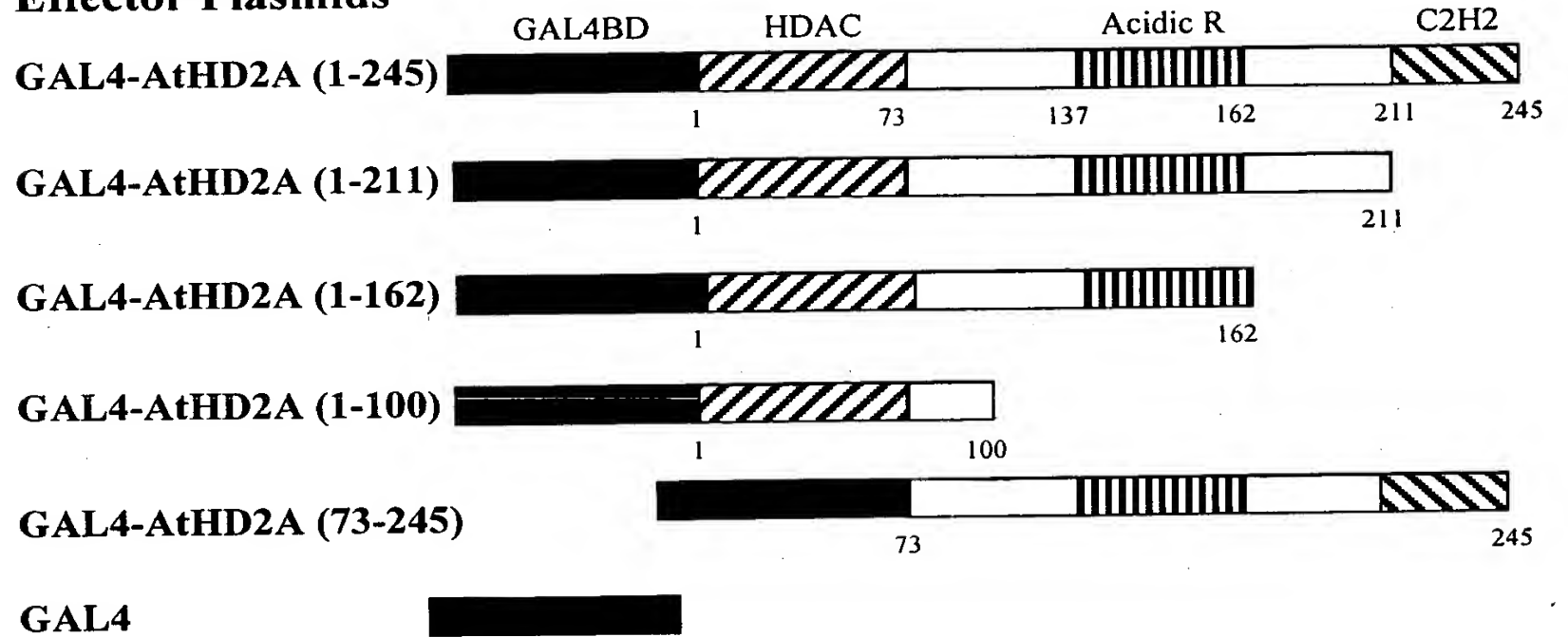
A

Reporter Plasmid

UAS_{GAL4}-tCUP-GUS



Effector Plasmids



B

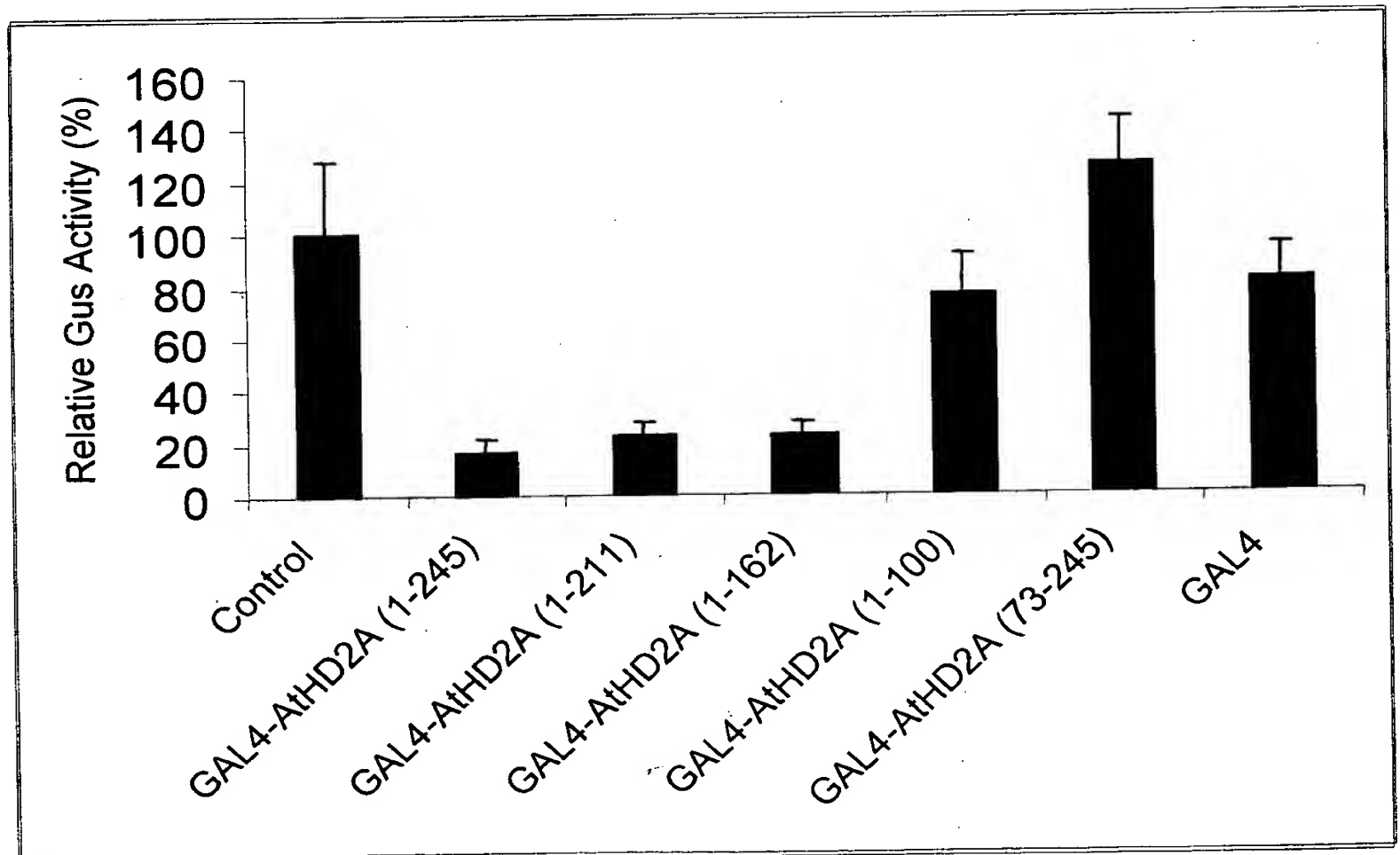


FIGURE 12

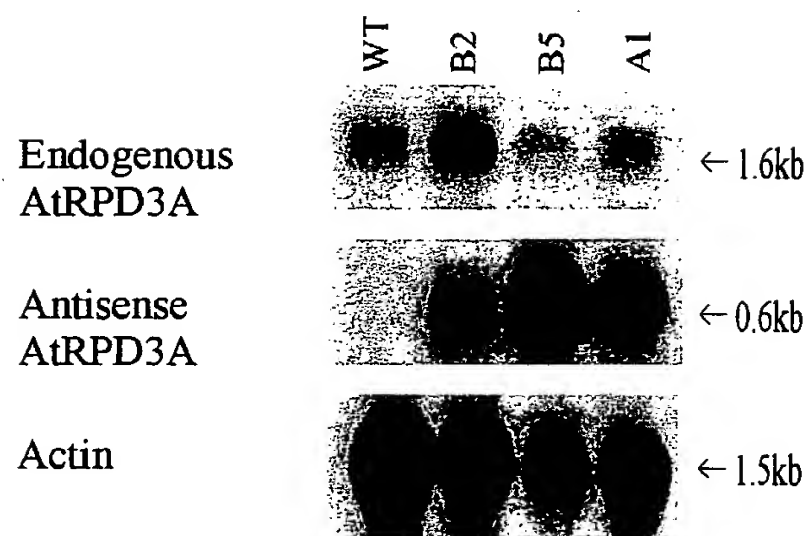


FIGURE 13

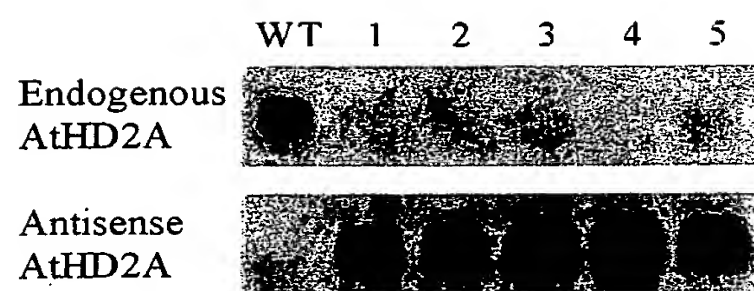


FIGURE 14

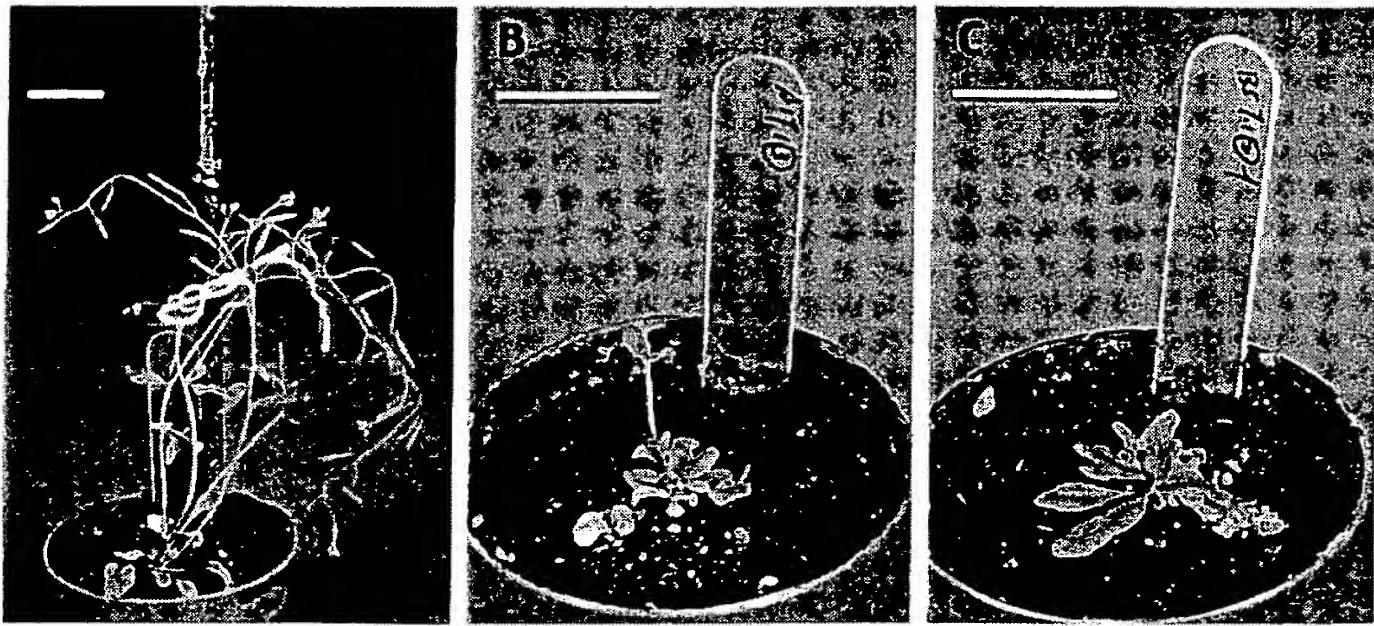


FIGURE 15

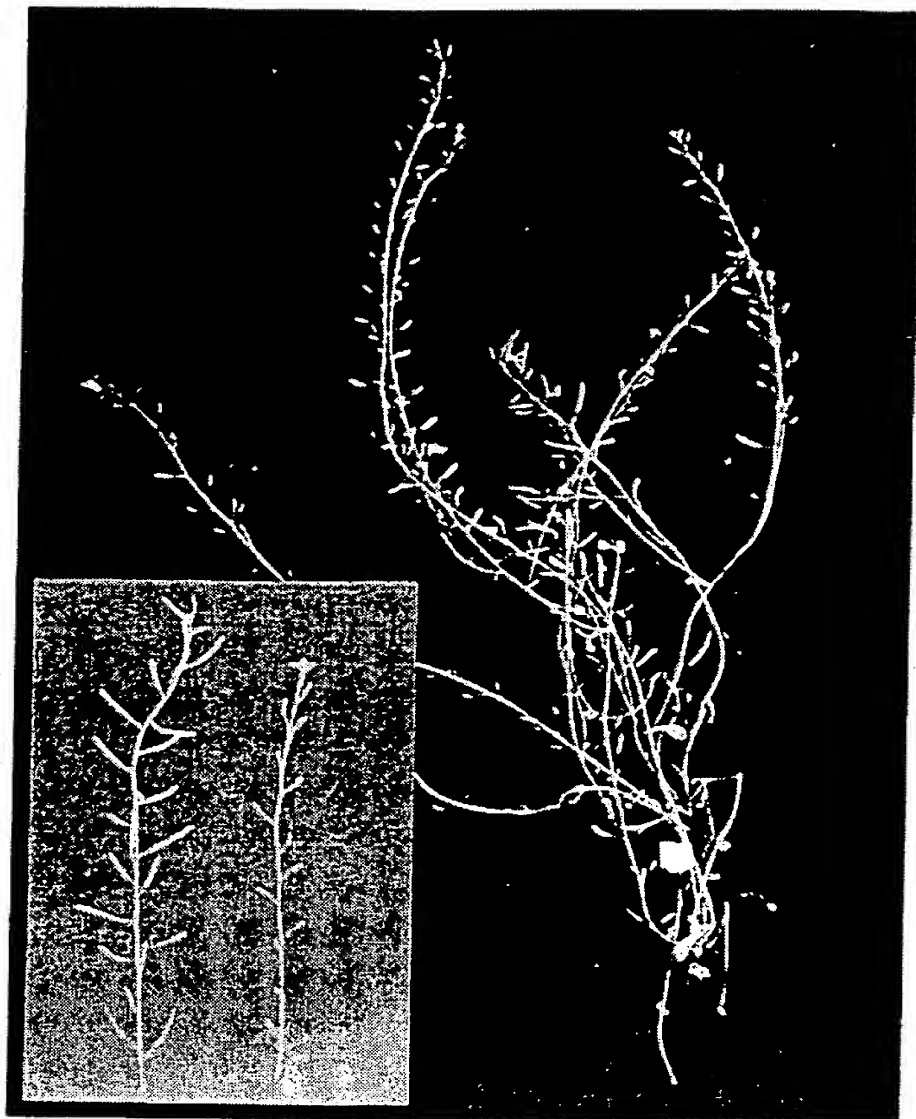
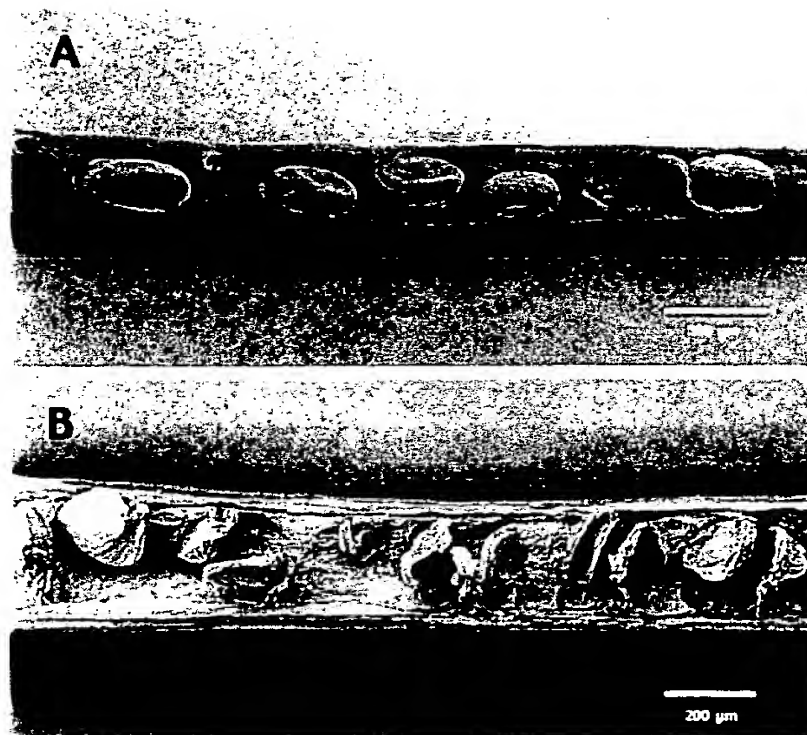
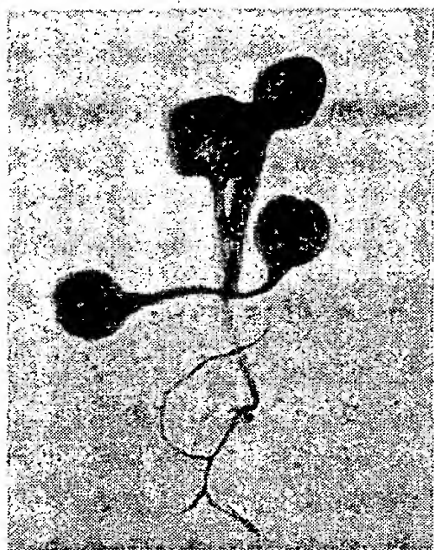


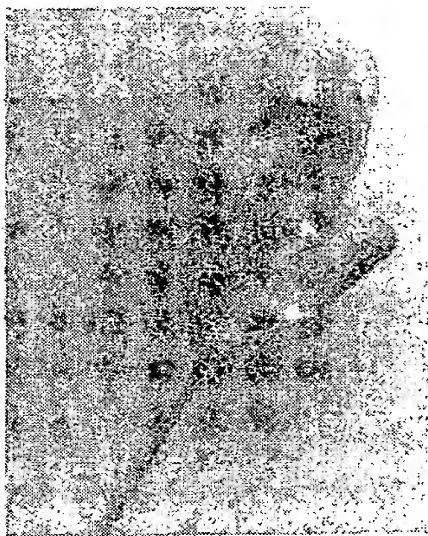
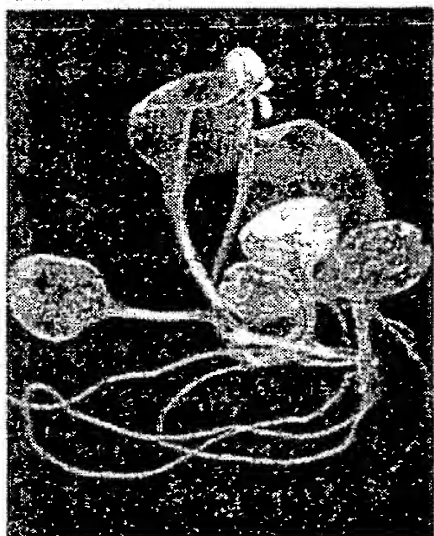
FIGURE 16



A



B



C

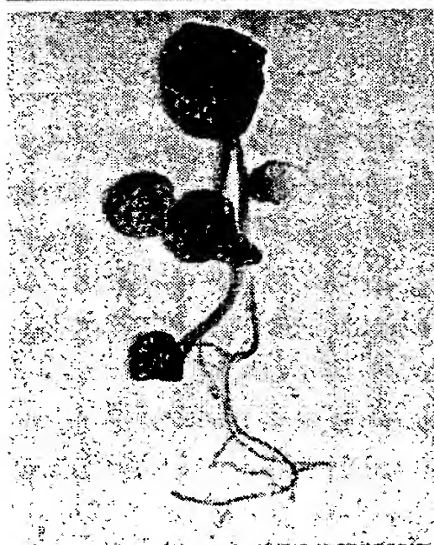


Figure 18

A

Effector Plasmids

35S/Pti4 — [35S] — [Pti4] — [Nos-T] —

tCUP/Pti4 — [tCUP] — [Pti4] — [Nos-T] —

Reporter Plasmid

GCC/GUS — [GCC-box] — [-62tCUP] — [GUS] — [Nos-T] —

B

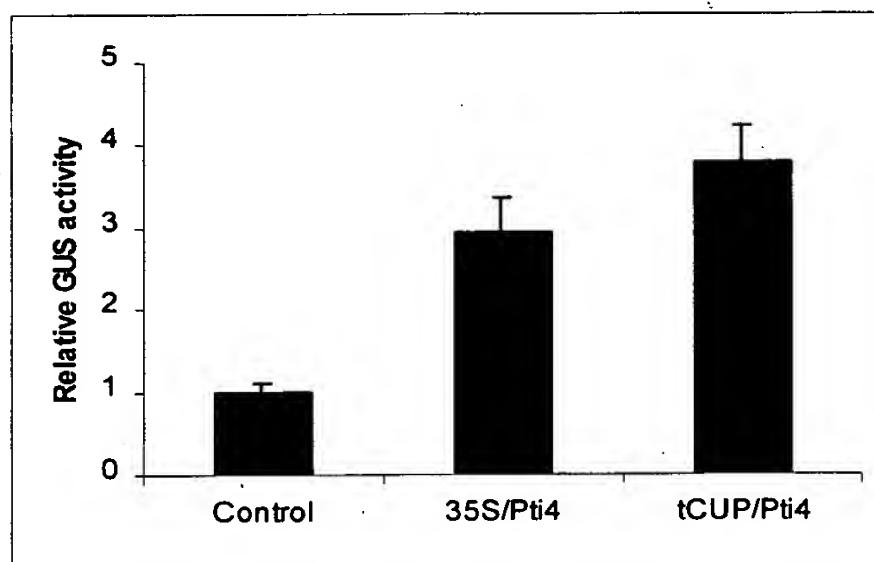


Figure 20

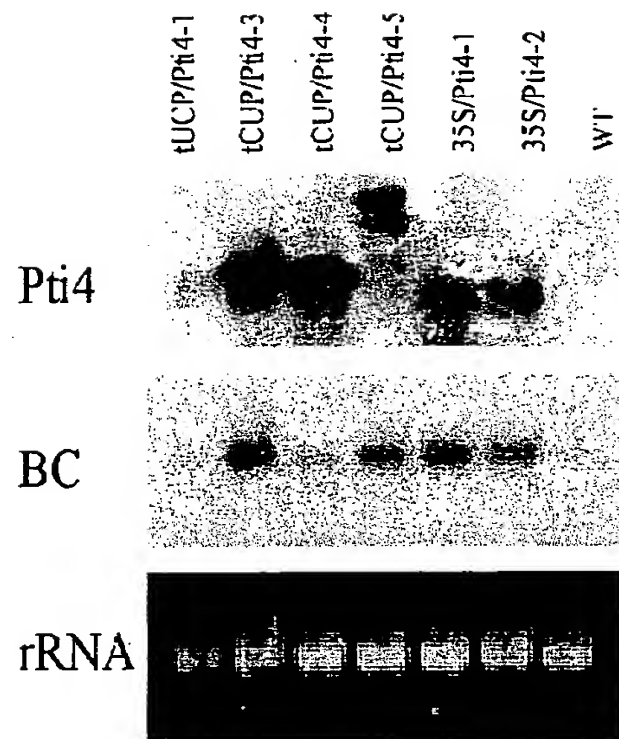


Figure 21

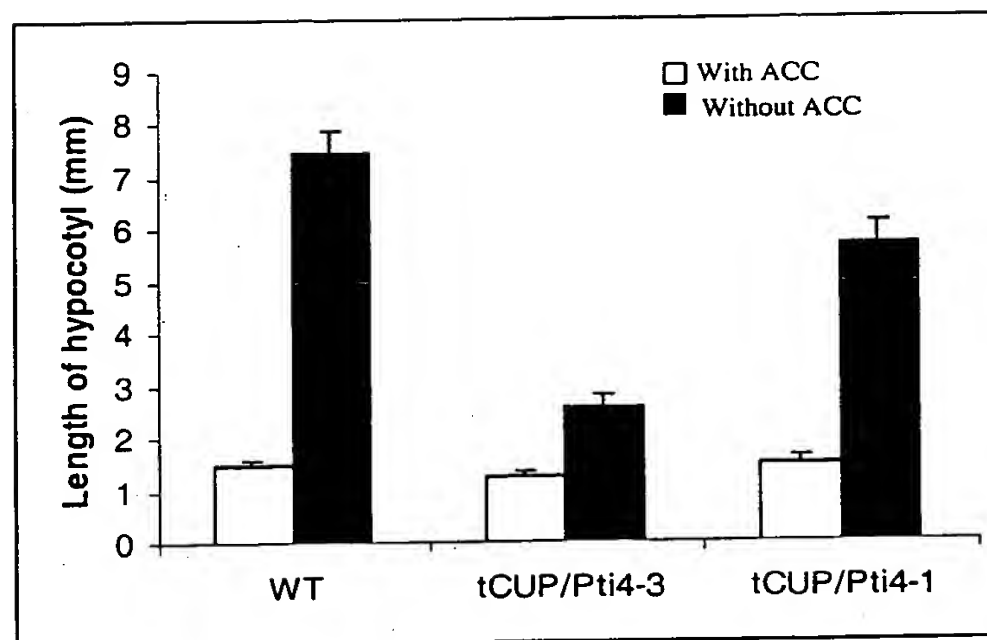


Figure 22

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☒ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.